BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Providing and fixing Street Sign boards in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Estimated Cost : Rs. 40.00 Lakhs

Job Code: 011-20-000012

Head of Account : P-1771 POW Works

Name of Agency: Sri Srinivasaiah N.N, # 2405, Sahakaranagara E Block, Bangalore – 560092.

Work order No: EE/BTP/BBMP/WO/103/2020-21 D: 09-09-2020.

Measurements Recarded on : 05-05-2021

Sl No	Description of item	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 1 & 2 is =					**229.61**	116.30	**26704.00**
2	KSRRB M800-4. **Direction and Place Identification Signs with size more than 0.9 sqm Size Board:**-Manufacturing, supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting confirming to type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimun 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier.						Sqm	
	Street Sign Boards							
	MS Palya Areas	78	0.60	0.60		28.08		
	Bharathnagara	35	0.60	0.60		12.60		
	Srinidhi Layout	28	0.60	0.60		10.08		
	Vadradarajanagara	30	0.60	0.60		10.80		
	Varadarajaswamy Layout	55	0.60	0.60		19.80		
	Kuvempunagara 1st Stage	38	0.60	0.60		13.68		
	Kuvempunagara 2nd Stage	29	0.60	0.60		10.44		
	Hosabalunagara	27	0.60	0.60		9.72		
	Ashraya Layout	22	0.60	0.60		7.92		
	Sri Balaji Layout	29	0.60	0.60		10.44		
	Singapura Main Road	15	0.60	0.60		5.40		
	Singapura	35	0.60	0.60		12.60		
	Vinayakanagara	29	0.60	0.60		10.44		
	Green Osro Layout	24	0.60	0.60		8.64		
	Prakruthi Layout	26	0.60	0.60		9.36		
	Naidu Layout	35	0.60	0.60		12.60		
		15	0.60	0.60		5.40		
		18	0.60	0.60		6.48		

204.48

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sl No	Description of item		No	L	B	D	Qty	Rate	Amount
			22	0.60	0.60		7.92		
			28	0.60	0.60		10.08		
			30	0.60	0.60		10.80		
			35	0.60	0.60		12.60		
			28	0.60	0.60		10.08		
			35	0.60	0.60		12.60		
			20	0.60	0.60		7.20		
			18	0.60	0.60		6.48		
			20	0.60	0.60		7.20		
			15	0.60	0.60		5.40		
			25	0.60	0.60		9.00		
			26	0.60	0.60		9.36		
			30	0.60	0.60		10.80		
			25	0.60	0.60		9.00		
			28	0.60	0.60		10.08		
			16	0.60	0.60		5.76		
			23	0.60	0.60		8.28		
			16	0.60	0.60		5.76		
			19	0.60	0.60		6.84		
			22	0.60	0.60		7.92		
			15	0.60	0.60	178.56	5.40		
							383.04		
							382.68	6378.78	2441032.00

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

No	Description of item		No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on : 16.06.2021								
3	KSRRB M800-7. Painting:-Providing and applying two coats of ready mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications. MORTH Specification No. 803 - **Painting on Steel Surface**							Sqm	
	Pole								
	MS Palya Areas		78	3.00		0.20	46.80		
	Bharathnagara		35	3.00		0.20	21.00		
	Srinidhi Layout		28	3.00		0.20	16.80		
	Vadradarajanagara		30	3.00		0.20	18.00		
	Varadarajaswamy Layout		55	3.00		0.20	33.00		
	Kuvempunagara 1st Stage		38	3.00		0.20	22.80		
	Kuvempunagara 2nd Stage		29	3.00		0.20	17.40		
	Hosabalunagara		27	3.00		0.20	16.20		
	Ashraya Layout		22	3.00		0.20	13.20		
	Sri Balaji Layout		29	3.00		0.20	17.40		
	Singapura Main Road		15	3.00		0.20	9.00		
	Singapura		35	3.00		0.20	21.00		
	Vinayakanagara		29	3.00		0.20	17.40		
	Green Osro Layout		24	3.00		0.20	14.40		
	Prakruthi Layout		26	3.00		0.20	15.60		
	Naidu Layout		35	3.00		0.20	21.00		321.00
			15	3.00		0.20	9.00		
			18	3.00		0.20	10.80		
			22	3.00		0.20	13.20		
			28	3.00		0.20	16.80		
			30	3.00		0.20	18.00		
			35	3.00		0.20	21.00		
			28	3.00		0.20	16.80		
			35	3.00		0.20	21.00		
			20	3.00		0.20	12.00		
			18	3.00		0.20	10.80		
			20	3.00		0.20	12.00		
			15	3.00		0.20	9.00		
			25	3.00		0.20	15.00		
			26	3.00		0.20	15.60		
			30	3.00		0.20	18.00		
			25	3.00		0.20	15.00		
			28	3.00		0.20	16.80		
			16	3.00		0.20	9.60		
			23	3.00		0.20	13.80		
			16	3.00		0.20	9.60		
			19	3.00		0.20	11.40		
			22	3.00		0.20	13.20		
			15	3.00		0.20	9.00		317.40
	Board Front and Back Side								
	MS Palya Areas	2	78	0.60		0.45	42.12		
	Bharathnagara	2	35	0.60		0.45	18.90		
	Srinidhi Layout	2	28	0.60		0.45	15.12		
	Vadradarajanagara	2	30	0.60		0.45	16.20		
	Varadarajaswamy Layout	2	55	0.60		0.45	29.70		
	Kuvempunagara 1st Stage	2	38	0.60		0.45	20.52		
	Kuvempunagara 2nd Stage	2	29	0.60		0.45	15.66		
	Hosabalunagara	2	27	0.60		0.45	14.58		
	Ashraya Layout	2	22	0.60		0.45	11.88		
	Sri Balaji Layout	2	29	0.60		0.45	15.66		
	Singapura Main Road	2	15	0.60		0.45	8.10		
	Singapura	2	35	0.60		0.45	18.90		
	Vinayakanagara	2	29	0.60		0.45	15.66		270.00
	Green Osro Layout	2	24	0.60		0.45	12.96		
	Prakruthi Layout	2	26	0.60		0.45	14.04		908.40

Assistant Executive Engineer
Vijayanagara Sub Div
BBMP, Bangalore

Sl No	Description of item		No	L	B	D	Qty	Rate	Amount
	Naidu Layout	2	35	0.60		0.45	18.90		
		2	15	0.60		0.45	8.10		
		2	18	0.60		0.45	9.72		
		2	22	0.60		0.45	11.88		
		2	28	0.60		0.45	15.12		
		2	30	0.60		0.45	16.20		
		2	35	0.60		0.45	18.90		
		2	28	0.60		0.45	15.12		
		2	35	0.60		0.45	18.90		
		2	20	0.60		0.45	10.80		
		2	18	0.60		0.45	9.72		
		2	20	0.60		0.45	10.80		
		2	15	0.60		0.45	8.10		
		2	25	0.60		0.45	13.50		
		2	26	0.60		0.45	14.04		
		2	30	0.60		0.45	16.20		
		2	25	0.60		0.45	13.50		
		2	28	0.60		0.45	15.12		
		2	16	0.60		0.45	8.64		
		2	23	0.60		0.45	12.42		
		2	16	0.60		0.45	8.64		
		2	19	0.60		0.45	10.26		296.38
		2	22	0.60		0.45	11.88		
	MS Palya Areas	2	78	0.60		0.15	14.04		
	Bharathnagara	2	35	0.60		0.15	6.30		
	Srinidhi Layout	2	28	0.60		0.15	5.04		
	Vadradarajanagara	2	30	0.60		0.15	5.40		
	Varadarajaswamy Layout	2	55	0.60		0.15	9.90		
	Kuvempunagara 1st Stage	2	38	0.60		0.15	6.84		
	Kuvempunagara 2nd Stage	2	29	0.60		0.15	5.22		
	Hosabalunagara	2	27	0.60		0.15	4.86		
	Ashraya Layout	2	22	0.60		0.15	3.96		
	Sri Balaji Layout	2	29	0.60		0.15	5.22		
	Singapura Main Road	2	15	0.60		0.15	2.70		
	Singapura	2	35	0.60		0.15	6.30		
	Vinayakanagara	2	29	0.60		0.15	5.22		
	Green Osro Layout	2	24	0.60		0.15	4.32		
	Prakruthi Layout	2	26	0.60		0.15	4.68		
	Naidu Layout	2	35	0.60		0.15	6.30		176.30
		2	15	0.60		0.15	2.70		
		2	18	0.60		0.15	3.24		
		2	22	0.60		0.15	3.96		
		2	28	0.60		0.15	5.04		
		2	30	0.60		0.15	5.40		
		2	35	0.60		0.15	6.30		
		2	28	0.60		0.15	5.04		
		2	35	0.60		0.15	6.30		
		2	20	0.60		0.15	3.60		
		2	18	0.60		0.15	3.24		
		2	20	0.60		0.15	3.60		
		2	15	0.60		0.15	2.70		
		2	25	0.60		0.15	4.50		
		2	26	0.60		0.15	4.68		
		2	30	0.60		0.15	5.40		
		2	25	0.60		0.15	4.50		
		2	28	0.60		0.15	5.04		
		2	16	0.60		0.15	2.88		
		2	23	0.60		0.15	4.14		
		2	16	0.60		0.15	2.88		85.14

Assistant Executive Engineer
Rajarajeshwara Sub Div.
BBMP, Bangalore - 98

472.82

No	Description of item		No	L	B	D	Qty	Rate	Amount
		2	19	0.60		0.15	3.42		
		2	22	0.60		0.15	3.96		
		2	25	0.60		0.15	4.50		
		2	29	0.60		0.15	5.22	17.10	
						1403.32	**1403.40**		
							1403.16	64.41	**90378.00**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Measurements Recarded on : 03-07-2021

4	Painting New Letter and Figures of any Shade with synthetic enamel paint black or any other approved colour to give an even shade complete as per specifications. ("i) Hindi (Matras commas and the like not to be measured and paid for half letter shall be counted as half) " MORTH Specification No. 803						Cms	
	Board Letters		15	0.10			1.50	
			20	0.125			2.50	
			25	0.10			2.50	
			30	0.10			3.00	
			25	0.10			2.50	
	For One Board						**12.00**	
	For 1063 Boards		1063	12.00				
							12756	0.89	**11353.00**

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Assistant Engineer
Ward No. 11

Verified
27/01

Assistant Executive Engineer
Vidyaranyapura Sub Division

- 994

- 214.28

Sl No	Description of item		No	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
	EIRL								
E1	Supply and fixing of **Retro Reflective Single Arrow Road Name Signboard of size 1600 mm x 900 mm made** out of retro reflective sheeting conforming to Type XI standrads of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of dlue colour and white letters and fixed over 4 mm thick aluminium composite materials sheet having minimum 0.5 mm thick aluminium skin on both sides with back side painted grey colour and fixed over back supportframe SS angle of 15 mm x 20 mm x 1.2 mm supported by 38 mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground means of properly designed foundation of size 450 mm x 450 mm x 600 mm in 1:1.5:3 ratio cement concrete the background shall be blue in color with letters and boarder in white the item includes earthwork excavation cost of all materials, loading, unloading, lead, lift, transportation etc complete as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manugacturer & a dertified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for techincal qualification in the tender							Sqm	
	Steel Boards								
	Singapura		1	1.20		1.00	1.20		
	MS Palya		1	1.20		1.00	1.20		
	Coconut Garden		1	1.20		1.00	1.20		
	Varadarajanagara		1	1.20		1.00	1.20		
	Singapura Paradise		1	1.20		1.00	1.20		
	Bharathnagara		1	1.20		1.00	1.20		
	Hosabalunagara		1	1.20		1.00	1.20		
	Gangamma Gudi		1	1.20		1.00	1.20		
	Kuvempunagara 1st Stage		1	1.20		1.00	1.20		
	Mariyamma Block		1	1.20		1.00	1.20		
	Sri Balaji Layout		1	1.20		1.00	1.20		
	Naidu Layout		1	1.20		1.00	1.20		
	Express Layout		1	1.20		1.00	1.20		
	Vinayakanagara		1	1.20		1.00	1.20		
	Valmikinagara		1	1.20		1.00	1.20		
	Vaishnavi Layout		1	1.20		1.00	1.20		
	Raghuram Layout		1	1.20		1.00	1.20		
	Kuvempunagara 2nd Stage		1	1.20		1.00	1.20		
	Somanna Layout		1	1.20		1.00	1.20		
	Kalathur Layout		1	1.20		1.00	1.20		
	Devappa Layout		1	1.20		1.00	1.20		
	Sai Garden		1	1.20		1.00	1.20		
	New Sai Garden		1	1.20		1.00	1.20		
	Koya Factory (Hunase Mara)		1	1.20		1.00	1.20		
	Lakkappa Layout		1	1.20		1.00	1.20		
	Singapura Layout		1	1.20		1.00	1.20		
	Dee Mandala		1	1.20		1.00	1.20		
	Green Infra Layout		1	1.20		1.00	1.20		
	Ashraya Layout		1	1.20		1.00	1.20		
	Prakruthi Layout		1	1.20		1.00	1.20		
	Balaji Layout		1	1.20		1.00	1.20		
							37.20	11896.03	**442532.00**
	Sub Total								**3011999.00**
	GST @ 12%								**361440.00**
	Total								**3373439.00**

Assistant Executive Engineer
Vidyaranyapura Sub Division
B'lore - 97

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division